- Attach me \*2



### **GENWAL COAL COMPANY**

June 28, 1991

Mr. Daron Haddock Division of Oil, Gas & Mining 3 Triad Center, Suite 350 355 West, North Temple Salt Lake City, Utah 84180-1203

> RE: Permit # ACT 007-012 Castle Valley Resources Permit Modification

Dear Mr. Haddock:

Castle Valley Resources requests an amendment to allow disposal of non-hazardous waste from Genwal Companies mine located in Crandal Canyon. amendment would allow a one time exemption to allow for temporary storage of approximately 600 cys of material.

The material is composed of fractured rock from Genwals crusher project along with some large boulders and soil obtained from the borrow area. The material will be sampled for pH, Electrical Conductivity, Particle Size Analysis (texture), Soluble Ca, Mg and Na, and Selenium.

The material will be placed on the northeast side of the refuse pile.(see attached drawing 4067-6-10A) runoff from the pile will report to sediment pond #1. The temporary storage area will not result in any additional disturbance.

A plan to allow for permanent disposal will be addressed in the new MRP currently being prepared by Mount Nebo Scientific.

If you have any questions or comments please call.

Sincerely;

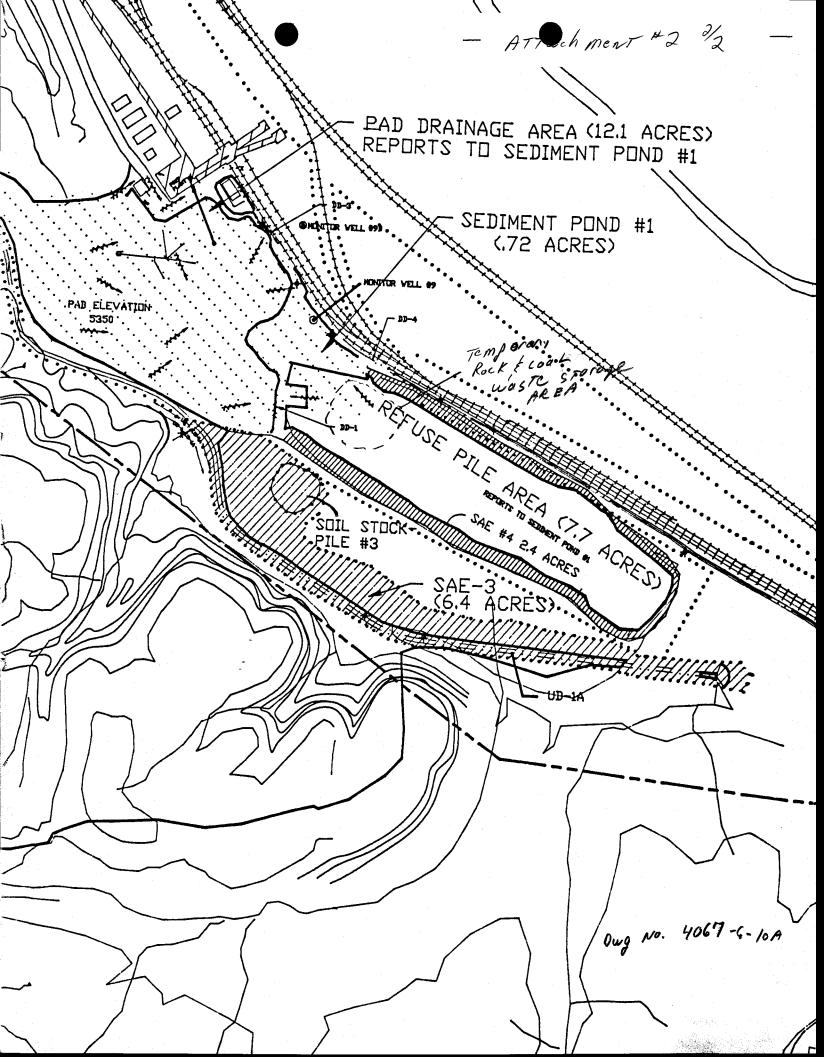
allen Childs Allen Childs

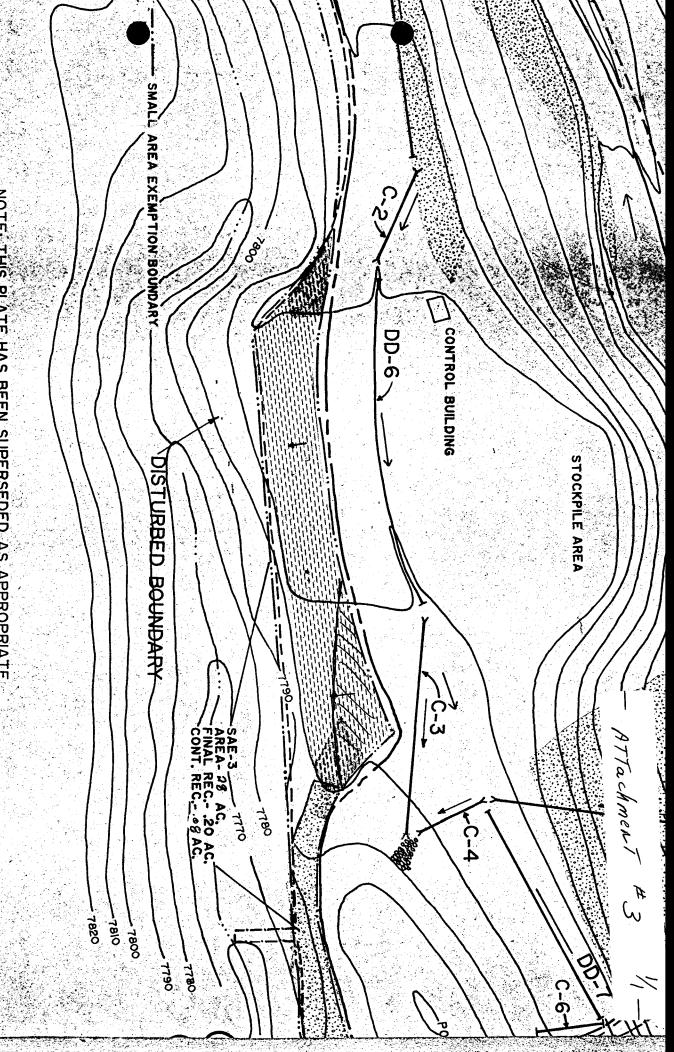
by I for gravalle V.P./ General Manager Genwal Coal Company

c.c.

John Passic Patrick Collins

ATTACHMENT OWNER TO SUPPLY SIGNS CONTACTOR TO INSTALL CRANDALL CANYON TRAILHEAD 4 MLE LIMITS OF GRANULAR BORROW EXISTING CULVERTS ATERIAL WILL BE EXCAVATED CTUAL VOLUME VIELD UNKNOWN Tun grave GRANULAR BORROW AREA// 30-FT OF 2 EXISTING CULVERT REO'D FOR WIRE BASKET GABION W REQ'D SEE DETAILS SHE METAL END IG DRAINAGE DITCH SECTION REO'D 20-ET OF 24" CSP RIP-RAP'D REOD FOR EXTENSION PICAL SECTION 60 -FT OF 24" CSP REQ'D





NOTE: THIS PLATE HAS BEEN SUPERSEDED AS APPROPRIATE BY PLATES 7-5A, 7-5B, AND 7-5C, EXCEPT FOR DEPICTION OF SMALL AREA EXEMPTIONS.



### NIELSON CONSTRUCTION

COMPLETE EXCAVATION SERVICE JOHN C. NIELSON & SONS

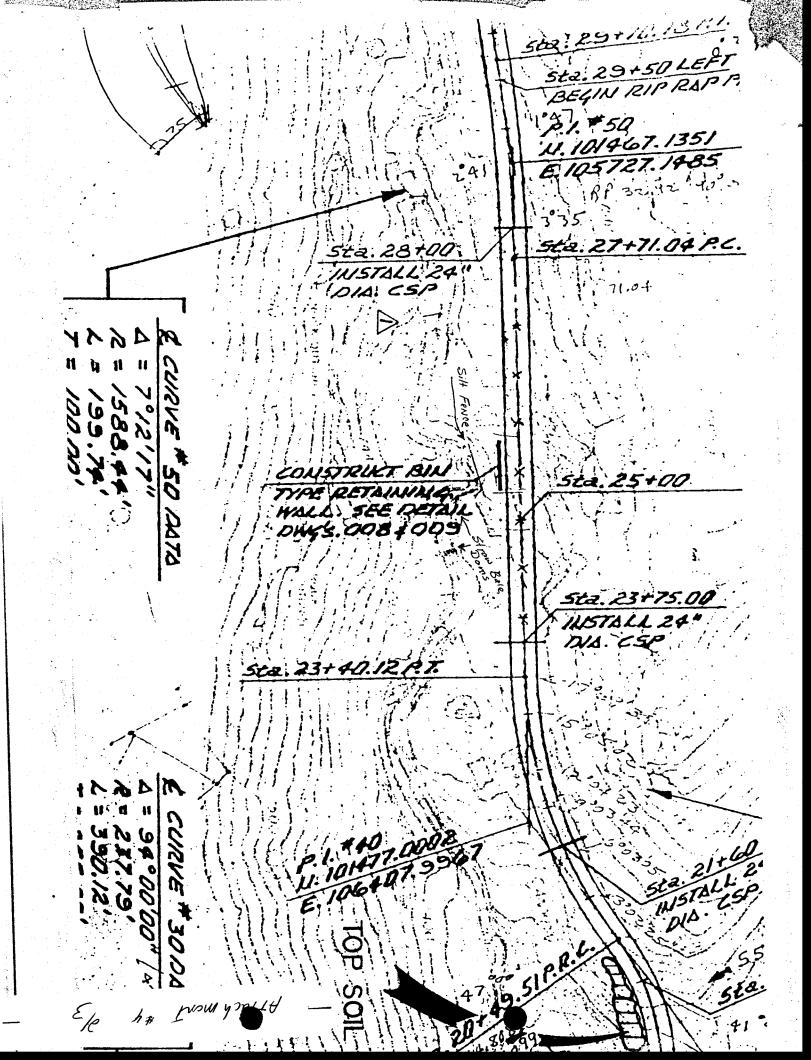
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P. O. BOX 620 · HUNTINGTON, UTAH 84528 · (801) 687-2494

Sediment & Erosion Control Plan for: Crandall Canyon Mine Road Improvement Project Submited by Nielson Construction Co.

We plan to place a temporary silt latch Fence under Neath (south) of Hilfiker Retaining Wall and (North) or above the creek, between STA 25+00 and STA. 26+00 of the Road Plan sheet 2. Also we will place 2 each filter dams made of straw bales, down stream on the creek. See attached map for locations and typical section view of attached plan for the silt Fence and straw filter dams.

As for construction of the wire Basket Gabion Wall at STA 80100 to STA 82100, All of this area drains directly into the existing Sediment Pond of Cenwall Coal mine and there sould not be a problem of Sediment getting into the Creek We will work to lessen the chance of silt a sediment getting in to the stream flow of the Creek In the pre construction meeting for this project Alan Childs mine. superintendent for Genwall Coal Coagreed to supply the matherials and workforce (labors) Necessary to build & install the silt Coalch Fence & Strambale Filter dams.



Staked in place attach mont 4. long) Typical Section G'x's'x's' I Farn Frace W/ Filter Fabric on one Typical Section

Silt Filler Fence

Straw Bale Filter dam.

3/3

1/3 \_

- ATTachman 5

## 10.5 Mitigation and Management Plans

Surface disturbance will be kept to a minimum. The road will be designed as narrow as practically possible. Encroachment on Crandall Creek will be kept to a minimum to protect the creek as a source of potential food for trout downstream in Huntington Creek.

EAF

#### 10.6 Stream Buffer Zone Determination By DOGM

The applicant's proposal for minimizing and monitoring impacts to the Crandall Creek drainage during construction activities in addition to the detail of operational plans as outlined under Section UMC 817.41.56 of the MRP and this document, justify granting a variance to the 100 foot buffer zone requirement of Section UMC 817.57. The Division has determined that the proposal to construct surface facilities connected with the proposed underground coal mine, within 100 feet of Crandall Creek, a perennial stream, is in compliance if the following is adhered to:

- The applicant states that no further blasting will be done that might deposit rubble in the creek. Temporary sediment control measures will be utilized which include the use of straw dams similar to those used and approved during access road construction, under the USFS road use permit during the summer and fall of 1981. Throughout construction activity, the straw dam provided an acceptable job of retaining sediment.
- Two more straw dams are proposed for installation in Crandall Creek in the vicinity of stations 71+00 and 79+00. The dams consist of two rows of straw bales laid across the creek with off set ends. The dams will be built high enough so that the water must flow over the center portion of the dam. After construction is completed, the trapped sediment will be removed and then the bales.



- 3. Embankment erosion control measures will consist of riprapping those sections which will encroach upon Crandall Creek, refer to Plates 3-1, 3-4, 3-5 and 3-7.
- 4. It is specified in Chapter 12 that pillars are to be designed to ensure that no unplanned subsidence should occur within 200 feet of the center line of Crandall Creek. No mining is proposed under the streams.
- 5. The area not to be disturbed will be designated a buffer zone and marked as specified in UMC 817.11.
- 6. The applicant states that monitoring of Crandall Creek on a weekly basis during the construction phase will verify the extent of any impact to Crandall Creek water quality. Applicant will sample for water quality weekly for the following parameters: TSS, pH, EC and water temperature. The two sampling sites will be as follows: (1) above the construction site at 300 feet upstream from the quarter corner designated as station 2A on the construction drawings; and (2) below the construction disturbance at station 72+50. Turbidity measurements will also be taken daily at both sampling locations.
- 7. The applicant commits to the development and implementation of appropriate mitigation plans with the regulatory authority should stream flow diminish significantly or water quality deteriorate.
- 8. The original stream channel will not be altered.
- 9. During and after mining, the water quality and quantity from the stream section within 100 feet of the underground coal mining activities shall not be adversely affected.

A copy of the plan to meet the above requirements was submitted to the Utah Bureau of Water Pollution Control in 1982, with a request for a temporary variance to sediment control standards during the applicant's construction phase.

Turbidity measurements will be taken daily as indicated. Turbidity will not be allowed to increase more than 10% above background levels. The samples will either be taken to a certified lab or analyzed in the field. Turbidity units will be reported in nephelometric turbidity units (NTU's)

Applicant has submitted final drawings, refer to Plate 3-1, with this document that show an elevated USFS development road between the coal stockpiles and the creek. Refer to the narrative in Chapter 3 pertaining to the mine site plans. Temporary sediment control measures as described above will be installed as per the design narrative. It will not be necessary to disturb the creek with vehicles or equipment to complete their construction. Most of the riparian vegetation along the creek can be saved if constructed as designed. Installation of a culvert would destroy the riparian vegetation and the food producing ability of the creek.

#### 10.7 Fish And Wildlife Monitoring

The initial aquatic study and report provides sufficient data, and therefore, applicant proposes to continue monitoring for stream flow and water quality only. The applicant agrees to work with the regulatory authority to develop and carry out appropriate mitigation plans should stream flow diminish significantly or if water quality deteriorates.

Genwal recognized that all amphibian and reptile species (see Table 5 of Appendix 10-3) are protected in Utah. Snake dens, if found, will be protected and reported to the Division of Wildllife Resources.



# STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING



 $N_0.004$ 

To all who shall see these presents, Greeting:

THIS IS TO CERTIFY that MELVIN A. COONROD	S.S.N. 528-58-9203
ofELMO, UTAH has been examined a	s required by Section 40-10-17(o) of the
Statutes of Utah and Division Rule R614-105 and is	hereby authorized to act as a
Coal Mine Surface Blaster in the State of Utah, through	DECEMBER 14 , 1993
Salt Lake City, Utah, JANUARY 7, 1991  Secretary to the Board of Oil, Gas & Mining	DIVISION OF OH, GAS & MINING Director

## IRECO Incorporated Western Division

Western Division
606 Columbia N.W., Suite 300
Olympia, WA 98501



## **BLASTING RECORD**

COMPANY NAME Nièlson CONSTRUCTION CUSTOMER ORDER #	:				
LOCATION BELT PORTAL GENEVOL COOL DATE TIME	AM/DM				
BLAST LOCATION/ BLAST NUMBER PERMIT # PERMIT #					
NAME AND LICENSE NUMBER OF BLASTER Alduin A. Goonson Ooth OF LICENSE 19/14/	1993				
SIGNATURE Thin I Consoc					
DIRECTION AND DISTANCE TO NEAREST (NON-MINE/NON-CONSTRUCTION RELATED) STRUCTURE (NON-MINE/NON-CONSTRUCTION RELATED)					
WEATHER TEMP WIND WIND SPEED	· · · · · · · · · · · · · · · · · · ·				
OVERCAST YES NO IF YES, CEILING LEVEL FEET					
TYPE OF 1 Sand Stone NUMBER 1. 30 BURDEN 1. 5 Feet SPACING 1.	6 Feet				
BLASTED 2. HOLES 2. 2. 2.					
3 3					
HOLE 12.5 INCH HOLE 113 FT STEMMING 1 Grave STEMMING 1 C	6.5 Feet				
2 2 2					
3					
EXPLOSIVES USED	· · · · · · · · · · · · · · · · · · ·				
TOTAL LBS. IN SHOT 330 Lbs 4-5% DECKING YES NO					
TYPE/BRAND NAME LBS./ UNITS TYPE/BRAND NAME	LBS./ UNITS				
Ireco Unigel 2"X8" lileth	ONLIS				
stick					
MAXIMUM WEIGHT WITHIN ANY 8 MS PERIOD 22 Lbs. MAXIMUM NO. OF HOLES WITHIN ANY 8 MS PERIOD 2 holes					
METHOD OF FIRING ELECTRIC NONELECTRIC BRAND NAME EZ Dets/N	ている				
CIRCUIT TYPE SERIES SERIES IN PARALLEL NO. OF SERIES Servention	1115				
BLASTING MACHINE USED NOISLESS Trunkline with Starter SERIAL #	<u> </u>				
DELAY PERIODS USED EZ Del 3 - 25 ms/350 ms - NTDs M3-17					
TOTAL NUMBER OF CAPS OR DELAY CONNECTORS 60 EZ dets / 8 NTD 5					
MATS OR OTHER PROTECTION USED YES NO TYPE	c)				
NOTE: All items above are required in surface coal operations by Federal Regulations of the Office of Surface Mining (OSM) (30 CFR 715.19(e)(3) and 816.68.)					

### **BLASTING RECORD**

#### SKETCH OF BLAST LAYOUT

IDENTIFY SHOT LOCATION BY STATION, OR BY DIRECTION AND DISTANCE TO KNOWN STRUCTURE OR OBJECT. SHOW NORTH ARROW. SHOW DELAY NUMBER BY HOLE AND WIRING/CORD/TUBING HOOKUP.

DI ACT I OCATION A				TYPICAL HOLES
BLAST LOCATION & BLAST NUMBER			DATE:	- ~ ~ works
Portal  Add 350 ms to Each Holo	218 193 1 LE 11 176 151 126 12 134 109 11 64 6	193 193 109 109 125	7°50	Depth. Ste
QUANTITY OF MATERIAL BLASTED:		POWDER FAC		BS/CUBIC YARD
14.43 yards Per Hole SEISMOGRAPH RESULT	CUBIC YARDS 2	-Delay u	nils Per-Hole	BS/TON
TYPE	NAME OF		COMPANY	
LOCATION OF SETUP	DISTANCE FROM BLAST SITE		DIRECTION FF	ROM
	MEASUREMENTS		PEAK SO	
SHOT RESULTS FRAGMEN- TATION COMMENTS	MUCKPILE CONFIGURATION			ζ

- ATTA MONT & 6 4/6

#### BLASTING PLAN

Company Name and Address:

Genwal Coal Company P.O. Box 1201 Huntington, Utah

Location:

Crandal Canyon Mine belt line

Number of Blasts:

One blast on 6/30/91 @ 9:00 am

Flagman will be posted to prevent access to the canyon.

Verbal warning:

"Fire in the hole"
"Fire"
"Fire" Shot

Minimum 15 min- (Blast site) inspection by blaster

"All Clear"

Note:

Total control of the area will be exercised during loading and shooting. No unauthorized personnel will be allowed within 1/4 mile of the site.

- ATTAC DENT #6 5/6

TO:

Mel Coonrod

FROM:

Jay Marshall

REFERENCE:

Blasting at Crandal Canyon Mine

DATE:

28 June 1991

On 6/28/91 Mr. Walt Nowack was notified as to Genwal Coal Companies intent to blast on 6/30/91 at approximately 9 AM. A preblast inventory of all structures was conducted on 6/28/91 all concerned parties within two miles were notified (mine personnel). No structures other than Genwal Coal structures are located within one mile. There are no oil, gas, water wells within the area of influence. Roads and all utilities are the responsibility of Genwal Coal Company. No explosives will be stored on site.



### **GENWAL COAL COMPANY**

June 28, 1991

Walt Novak
Manti - Lasal National Forest
599 Price River Drive
Price, Ut 84501

RE: Surface Blasting Crusher Project

Dear Mr. Novak:

This is to notify you that Genwal Coal Company is going to use explosives on our permitted mine property on 6/30/91. The blast will be done in accordance to all applicable federal and state regulations.

Should you have any questions please call.

Sincerely;

R. Jay Marshall Chief Engineer

Genwal Coal Company



## NIELSON CON

**COMPLETE EXCAVATION SERVICE JOHN C. NIELSON & SONS** 

AN EQUAL OPPORTUNITY EMPLOYER

P. O. BOX 620 · HUNTINGTON, UTAH 84528 · (801) 687-2494

Traffic Control Plan for the: Crandall Canyon Mine Road Improvement Project. 54 bmited by Nielson Construction P.

IN order to build this HilfiKers Retaining wall between STA 25+00 + STA 26+00 of the Road Plan sheet 2, we will need to cut into the south lane of the Road. We plan to maintain one single lane of traffic thru this area durning the construction of this retaining wall We plan to post signs ( Shoulder Work Ahead ) 750 Feet below and above the work area, Also we will post (single Lane Adead) signs 500 Feet above and below the work area. We will place Flagmen 250 Feet above and below the work area. Also we will place orange + white refective vertical pannels every 50 reet around the work area to mark the edge of the cut. Also we will post a (Road Work Abread Sign) at or Near the Bridge on Huntington Creek. We will make sure the Road way is clear for traffic at night. Also we will work to lessen the chance of accidents on this Road while

we are working.